

5' NCG CCG GTT CGT CTA CTC TTT CCT TCA GCC GCC TCC TTT CAA CCT TGT CAA CCC
 9 18 27 36 45 54

 GTC GGC GCG GCC TCT GGT GCA GCG GCG GCT CCT GTT CCT GCC GCA GCT CTC
 63 72 81 90 99 108

 TCC CTT TCT TAC CTC CCC ACC AGA TCC CGG AGA TCG CCC GCC ATG GCT TTA CTT
 117 126 135 144 153 162

 ACT GCG GCC GCG CTC TTG GGA ACC AAG AAT GCA TCT TGT CTT GTT CTT GCA
 T A A A R L L G T K N A S C L V L A
 171 180 189 198 207 216

 GCC CGG CAT GCC AGT GCT TCC TCC ACC AAT TTG AAA GAC ATA TTG GCT GAC CTG
 225 234 243 252 261 270

 ATA CCT AAG GAG CAG GCC AGA ATT AAG ACT TTC AGG CAG CAA CAT GGC AAG ACG
 I P K E Q A R I K T F R Q Q H G K T
 279 288 297 306 315 324

 GTG GTG GGC CAA ATC ACT GTG GAC ATG ATG TAT GGT GGC ATG AGA GGC ATG AAG
 V V G Q I T V D M M Y G G R G M K
 333 342 351 360 369 378

FIGURE 1A

387 396 405 414 423 432
 GGA TTG GTC TAT GAA ACA TCA GTT CTT GAT CCT GAT GAG GGC ATC CGT TTC CGA
 G L V Y E T S V L D P D E G I R F R

441 450 459 468 477 486
 GGC TTT AGT ATC CCT GAA TGC CAG AAA CTG CTA CCC AAG GCT AAG GGT GGG GAA
 G F S I P E C Q K L L P K A K G G E

495 504 513 522 531 540
 GAA CCC CTG CCT GAG GGC TTA TTT TGG CTG CTG GTA ACT GGA CAT ATC CCA ACA
 E P L P E G L F W L L V T G H I P T

549 558 567 576 585 594
 GAG GAA CAG GTA TCT TGG CTC TCA AAA GAG TGG GCA AAG AGG GCA GCT CTG CCT
 E E Q V S W L S K E W A K R A A L P

603 612 621 630 639 648
 TCC CAT GTG GTC ACC ATG CTG GAC AAC TTT CCC ACC AAT CTA CAC CCC ATG TCT
 S H V V T M L D N F P T N L H P M S

657 666 675 684 693 702
 CAG CTC AGT GCA GCT GTT ACA GCC CTC AAC AGT GAA AGT AAC TTT GCC CGA GCA
 Q L S A A V T A L N S E S N F A R A

711 720 729 738 747 756
 TAT GCA CAG GGT ATC AGC CGA ACC AAG TAC TGG GAG TTG ATT TAT GAA GAC TCT
 Y A Q G I S R T K Y W E L I Y E D S

FIGURE 1B

765	774	783	792	801	810
ATG GAT CTA ATC GCA AAG CTA CCT TGT GTT GCA GCA AAG ATC TAC CGA AAT CTC					
M D L I A K L P C V A A K I Y R N L					
819	828	837	846	855	864
TAC AGA GAA GGC AGC GGT ATT GGG GCC ATT GAC TCT AAC CTG GAC TGG TCT CAC					
Y R E G S G I G A I D S N L D W S H					
873	882	891	900	909	918
AAT TTC ACC AAC ATG TTA GGC TAT ACT GAT CAT CAG TTC ACT GAG CTC ACG CGC					
N F T N M L G Y T D H Q F T E L T R					
927	936	945	954	963	972
CTG TAC CTC ACC ATC CAC AGT GAC CAT GAG GGT GGC AAT GTA AGT GCC CAT ACC					
L Y L T I H S D H E G G N V S A H T					
981	990	999	1008	1017	1026
AGC CAT TTG GTG GGC AGT GCC CTT TCC GAC CCT TAC CTG TCC TTT GCA GCA GCC					
S H L V G S A L S D P Y L S F A A A					
1035	1044	1053	1062	1071	1080
ATG AAC GGG CTG GCA GGG CCT CTC CAT GGA CTG GCA AAT CAG GAA GTG CTT GTC					
M N G L A G P L H G L A N Q E V L V					
1089	1098	1107	1116	1125	1134
TGG CTA ACA CAG CTG CAG AAG GAA GTT GGC AAA GAT GTG TCA GAT GAG AAG TTA					
W L T Q Q L Q K E V G K D V S D E K L					

FIGURE 1C

1143	CGA GAC TAC ATC TGG AAC ACA CTC AAC TCA GGA CGG GTT GTT CCA GGC TAT GGC	1152	1161	1170	1179	1188
	R D Y I W N T L N S G R V V P G Y G					
1197	CAT GCA GTA CTA AGG AAG ACT GAT CCG CGA TAT ACC TGT CAG CGA GAG TTT GCT	1206	1215	1224	1233	1242
	H A V L R K T D P R Y T C Q R E F A					
1251	CTG AAA CAC CTG CCT AAT GAC CCC ATG TTT AAG TTG GTT GCT CAG CTG TAC AAG	1260	1269	1278	1287	1296
	L K H L P N D P M F K L V A Q L Y K					
1305	ATT GTG CCC AAT GTC CTC TTA GAG CAG GGT AAA GCC AAG AAT CCT TGG CCC AAT	1314	1323	1332	1341	1350
	I V P N V L L E Q G K A K N P W P N					
1359	GTA GAT GCT CAC AGT GGG GTG CTG CTC CAG TAT TAT GGC ATG ACG GAG ATG AAT	1368	1377	1386	1395	1404
	V D A H S G V L L Q Y Y G M T E M N					
1413	TAC TAC ACG GTC CTG TTT GGG GTG TCA CGA GCA TTG GGT GTA CTG GCA CAG CTC	1422	1431	1440	1449	1458
	Y Y T V L F G G V S R A L G V L A Q L					
1467	ATC TGG AGC CGA GCC TTA GGC TTC CCT CTA GAA AGG CCC AAG TCC ATG AGC ACA	1476	1485	1494	1503	1512
	I W S R A L G G F P L E R P K S M S T					

FIGURE 1D

1521	1530	1539	1548	1557	1566
GAG GGT CTG ATG AAG TTT GTG GAC TCT AAG TCA GGG TAA AAC TGG AGA CTG GGT					
E G L M K F V D S K S G *					
1575	1584	1593	1602	1611	1620
GAA AGT GAC TAC CAG AAA GTG AGG AAG CCT AAA TAA AAA GTA TAC TTT TGT TTC					
1629	1638	1647	1656	1665	1674
AGG GGG CCT TTA AAG ACT TAA GAT TAA ATT ATA TCT GAG GCA CTG ATA ATA TGT					
1683	1692	1701	1710	1719	1728
TTG AGG TTA AAA TAT AAA TTA AGA CTT TAA AAG ATG AAA AAT GGT CCC TTC TTC					
1737	1746	1755	1764	1773	1782
CCT AAT CAG CTC CCT TCC CCT GCC TGG TAT GAG TTG CCC ATC ATA CGC ATG GTC					
1791	1800	1809	1818	1827	1836
CTG GAG GAT GAC CAG GAC TAA TGC ATG TGG TAT GAG TAG GTT TGG CCC CCT CAC					
1845	1854	1863	1872	1881	1890
TAT CTC TAG AGT GAG AAT CTG GCT CCT GTT TCC ATG GGT CAA AGC CGG TTG CAG					

FIGURE 1E

1899	1908	1917	1926	1935	1944
AGA ATC TGT AGT CAC TTT GGA GCT TTA GCT TCT CTG CCA AGC CCT CAA TAA GCC					
1953	1962	1971	1980	1989	1998
AGC AAA CCA GGA CTC TGC CCC TTC TGT TTC CAT AGG AAT CAT GTT GGA TAG TCA					
2007	2016	2025	2034	2043	2052
GCT GTA CCA AGC CCC TTG GCC CTC TCC CAT GCA CAC AAA CAC CTC CTA GCA AGA					
2061	2070	2079	2088	2097	2106
CCT GTT GGT TAG CTG GAC ATG CTT TGG CAA TTT TTT TAT ACT ACC AAG TGA CCA					
2115	2124				
TAT TGG CAT GGC ATT TTT TGG TGA TG 3'					

FIGURE 1F

1	M A L L T A A A R L L G T K N A S C L V	2171653
1	M A L L T A A A R L F G A K N A S C L V	GI 164419
21	L A A R H A S A S S T N L K D I L A D L	2171653
21	L A A R H A S A S S T N L K D I L A D L	GI 164419
41	I P K E Q A R I K T F R Q Q H G K T V V	2171653
41	I P K E Q A R I K T F R Q Q H G N T V V	GI 164419
61	G Q I T V D M M Y G G M R G M K G L V Y	2171653
61	G Q I T V D M M Y G G M R G M K G L V Y	GI 164419
81	E T S V L D P D E G I R F R G F S I P E	2171653
81	E T S V L D P D E G I R F R G Y S I P E	GI 164419
101	C Q K L L P K A K G G E E P L P E G L F	2171653
101	C Q K M L P K A K G G E E P L P E G L F	GI 164419
121	W L L V T G H I P T E E Q V S W L S K E	2171653
121	W L L V T G Q I P T E E Q V S W L S K E	GI 164419
141	W A K R A A L P S H V V T M L D N F P T	2171653
141	W A K R A A L P S H V V T M L D N F P T	GI 164419
161	N L H P M S Q L S A A V T A L N S E S N	2171653
161	N L H P M S Q L S A A I T A L N S E S N	GI 164419
181	F A R A Y A Q G I S R T K Y W E L I Y E	2171653
181	F A R A Y A E G I H R T K Y W E L I Y E	GI 164419
201	D S M D L I A K L P C V A A K I Y R N L	2171653
201	D C M D L I A K L P C V A A K I Y R N L	GI 164419
221	Y R E G S G I G A I D S N L D W S H N F	2171653
221	Y R E G S S I G A I D S K L D W S H N F	GI 164419

FIGURE 2A

241	T N M L G Y T D H Q F T E L T R L Y L T	2171653
241	T N M L G Y T D A Q F T E L M R L Y L T	GI 164419
261	I H S D H E G G N V S A H T S H L V G S	2171653
261	I H S D H E G G N V S A H T S H L V G S	GI 164419
281	A L S D P Y L S F A A M N G L A G P L	2171653
281	A L S D P Y L S F A A M N G L A G P L	GI 164419
301	H G L A N Q E V L V W L T Q L Q K E V G	2171653
301	H G L A N Q E V L V W L T Q L Q K E V G	GI 164419
321	K D V S D E K L R D Y I W N T L N S G R	2171653
321	K D V S D E K L R D Y I W N T L N S G R	GI 164419
341	V V P G Y G H A V L R K T D P R Y T C Q	2171653
341	V V P G Y G H A V L R K T D P R Y T C Q	GI 164419
361	R E F A L K H L P N D P M F K L V A Q L	2171653
361	R E F A L K H L P H D P M F K L V A Q L	GI 164419
381	Y K I V P N V L L E Q G K A K N P W P N	2171653
381	Y K I V P N V L L E Q G K A K N P W P N	GI 164419
401	V D A H S G V L L Q Y Y G M T E M N Y Y	2171653
401	V D A H S G V L L Q Y Y G M T E M N Y Y	GI 164419
421	T V L F G V S R A L G V L A Q L I W S R	2171653
421	T V L F G V S R A L G V L A Q L I W S R	GI 164419
441	A L G F P L E R P K S M S T E G L M K F	2171653
441	A L G F P L E R P K S M S T D G L I K L	GI 164419
461	V D S K S G	2171653
461	V D S K	GI 164419

FIGURE 2B